HEALTH MONITORING AND DIAGNOSTIC DEVICE AND NETWORK-BASED HEALTH ASSESSMENT AND MEDICAL RECORDS MAINTENANCE SYSTEM

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ABSTRACT OF THE DISCLOSURE

A health monitoring and diagnostic device (LIFESTREAM cholesterol meter) configured as a self-contained testing and diagnostic unit in a clam-shell

10 type case. One side of the case includes a spring-loaded finger stick and a compartment for carrying one or more packages of disposable items including a test strip, a needle for the finger stick, and an alcohol swipe. The other half of the case includes a test strip reader, a key pad, and a liquid crystal display. The meter reads a test strip carrying a droplet of blood and receives additional

15 diagnostic information from the patient, such as age, gender, weight, and family history of heart disease. Within minutes, the meter displays test results, including total cholesterol levels. The meter also displays additional diagnostic results, such as the patient's "cardiac age," recommended weight loss, and a cardiac risk assessment. The meter also works in connection with a network-

20 based comprehensive health analysis and reporting system. The meter writes patient data to a smartcard. This patient data typically includes patient identification information, the test results, the diagnostic information, and the diagnostic results. A computer station reads the smartcard and establishes a network connection with a health report server over the Internet. The

25 computer then downloads the patient data to the health report server, which prepares a comprehensive health report. Within minutes, this report is transmitted back to the computer station, where it is printed out and delivered to the patient.